

GenCore version 4.5  
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OM nucleic - nucleic search, using sw model

Run on: May 31, 2001, 06:37:45 ; Search time 1114.81 Seconds  
(without alignments)  
6191.188 Million cell updates/sec

Title: US-09-612-921-3

Perfect score: 468  
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Scoring table: IDENTITY NUC  
Gapop 10.0, Gapext 1.0

Searched: 1283235 segs, 7373929652 residues

Total number of hits satisfying chosen parameters: 2566470

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database :

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2: gb\_ba2:\*  
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4: gb\_in1:\*  
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94: gb\_vl37:\*  
95: gb\_vl38:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	468	100.0	468	88	AF230377 Homo sapi
2	468	100.0	1282	10	AX069307 Sequence
3	468	100.0	1288	88	AF201830 Homo sapi
4	468	100.0	2604	92	AF242738 Homo sapi
5	468	100.0	2613	92	AF242737 Homo sapi
6	468	100.0	2648	10	AX069309 Sequence
7	468	100.0	2720	88	AF186094 Homo sapi
8	351.2	75.0	468	10	AX069335 Sequence
9	351.2	75.0	471	94	AF230378 Mus muscu
10	351.2	75.0	1283	94	AF200495 Mus muscu
11	351.2	75.0	1284	94	MMU250429 Mus muscu

12 243 51.9 357 10 AX069304 AX069304 Sequence  
13 243 51.9 985 10 AX069305 AX069305 Sequence  
14 227 48.5 5751 10 AX069310 AX069310 Sequence  
15 227 48.5 6540 92 HSA271338 AJ271338 Homo sapi  
16 227 48.5 7604 88 AF216693 AF216693 Homo sapi  
17 227 48.5 7605 10 AX069311 AX069311 Sequence  
18 227 48.5 198092 65 AC016724 AC016724 Homo sapi  
19 174.2 37.2 8032 10 AX069334 AX069334 Sequence  
20 110.8 23.7 998 9 AX048803 AX048803 Sequence  
21 110.8 23.7 998 9 AX048805 AX048805 Sequence  
22 110.2 23.5 462 9 ARI05636 ARI05636 Sequence  
23 110.2 23.5 474 9 A50276 A50276 Sequence  
24 110.2 23.5 474 9 ARI01464 ARI01464 Sequence  
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31 110.2 23.5 540 10 I09591 I09591 Sequence  
32 110.2 23.5 540 10 I09592 I09592 Sequence  
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37 110.2 23.5 579 9 AR05510 AR05510 Sequence  
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## ALIGNMENTS

RESULT 1  
LOCUS AF230377 468 bp mRNA 02-AUG-2000  
DEFINITION Homo sapiens interleukin-1 delta mRNA, complete cds.  
ACCESSION AF230377  
VERSION AF230377.1 GI:9651788  
KEYWORDS  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
REFERENCE  
AUTHORS Debets, R., Timans, J.C., Zurawski, S., Sana, T.R., Bazan, F. and  
Kastelein, R.A.  
TITLE Novel IL-1 ligands IL-1d and IL-1e use IL-1R related protein 2  
JOURNAL Unpublished  
REFERENCE 2 (bases 1 to 468)  
AUTHORS Kastelein, R.A., Timans, J.C., Sana, T., Debets, R. and Bazan, F.  
TITLE Direct Submission  
JOURNAL Submitted (01-FEB-2000) Molecular Biology, DNAX Research Institute,  
901 California Ave, Palo Alto, CA 94304, USA  
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/translation="MVLGALCFRMDALKLVLYLHNNOLLAGLGHAGKVIKGEISV

VPNRMILDASLPVILVGGGSGGSLSCVGGEPITLLEPNVIMELYLGAKSKSFTFVR  
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BASE COUNT 95 a 128 c 142 g 103 t  
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Db 121 GAGATCAGCGTGTGTCCCAATCGGTGTGATGCCAGCTCTGCCGCTATCTGGGT 180  
Qy 181 gtccaggttgaagccagctgtctcatgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 240  
Db 181 GTCCAGGTGGAAGCCAGCTGTCTCATGTGTGTGTGTGTGTGTGTGTGTGTGTGT 240  
Qy 241 gagcagtggaacatcatgtgaagctctatctgtgtgtgtgtgtgtgtgtgtgtgt 300  
Db 241 GAGCAGTGAACATCATGTGAGCTCTATCTGTGTGTGTGTGTGTGTGTGTGTGTGT 300  
Qy 301 taccgctggagacatgt 360  
Db 301 TACCGCTGGAGACATGT 360  
Qy 361 ctgtgacagtgctgtcgaagccgcatcagctgtcagactaccagctcccgagaatgt 420  
Db 361 CTGTGACAGTGTCTGGAAGCCGATCAGCTGTCTCAGACTACCGAGATGTGT 420  
Qy 421 ggcgtgaatgtcccatcagactctactcagcagagtgtagtaag 468  
Db 421 GCGTGAATGTCCCATCAGACTCTACTCTCAGCAGTGTGACTAG 468

RESULT 2  
LOCUS AX069307 1282 bp DNA PAT 25-JAN-2001  
DEFINITION Sequence 4 from Patent WO0102571.  
ACCESSION AX069307  
VERSION AX069307.1 GI:12579179  
KEYWORDS  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
REFERENCE  
AUTHORS Ford, J. and Pace, A.  
TITLE A interleukin-1 receptor antagonist and uses thereof  
JOURNAL Patent: WO 0102571-A 4 11-JAN-2001;  
HSEQ, INC. (US)  
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BASE COUNT 294 a 337 c 350 g 301 t  
ORIGIN

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Best Local Similarity 100.0%; Pred. No. 6.8e-110;  
Matches 468; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 73 ATGCTCTAGTGGGCGCTGTCTCCGATGAGAGACCGGCAATGAAGGTGCTTTAT 132
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QY 61 ctgcataataaccagctttagcttgagggtctcagaggaggaaggtcaatgaagtga 120
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DB 133 CTGCATTAATTAACAGCTTCTAGCTGAGGGCTGCATGCAAGGAAGTCAATTAAGGTGA 192
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QY 301 taccggcgggacatggggtcaccctcagcttcagctgagctgcgtccacccgggctgttc 360
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DB 373 TACGGCGGGGACATGGGGCTCACTCCAGCTTCGAGTCCGGCTCCACCGGGCTGTTC 432
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QY 361 ctgtgacgggtgtcgtgaagccgaltcagcctgtcagactcaaccagcttcccgagaatgt 420
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DB 433 CTGTGACGCTGCTGCTGAACCCGATCAGCTGTGACACTCAACCCAGCTTCCCGAGATGTG 492
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QY 421 ggtctgaatgcccccatcagacttctacttccagcaatgtgactag 468
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DB 493 GGCTGAATGCCCCCATCAAGACTTCTACTCTCCACAGGTGACTAG 540
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## RESULT 3

LOCUS AF201830 1288 bp mRNA PRI 16-JAN-2000  
DEFINITION Homo sapiens FIL1 delta mRNA, complete cds.  
ACCESSION AF201830  
VERSION AF201830.1 GI:6694387

## SOURCE ORGANISM

human.  
Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.  
Smith,D.E., Renshaw,B.R., Ketchum,R.R., Kubin,M., Garza,K.E. and  
Sims,J.E.

REFERENCE  
AUTHORS Four new members expand the interleukin-1 superfamily  
JOURNAL J. Biol. Chem. 275 (2), 1169-1175 (2000)  
MEDLINE 20092888  
REFERENCE 2 (bases 1 to 1288)

TITLE  
AUTHORS Sims,J.E.  
JOURNAL Direct Submission  
Submitted (04-NOV-1999) Molecular Genetics, Immunex Corporation, 51  
University Street, Seattle, WA 98101, USA  
LOCATION/Qualifiers  
1. 1288

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Best Local Similarity 100.0%; Pred. No. 6.8e-110;  
Matches 468; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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## RESULT 4

LOCUS HSA242738 2604 bp mRNA PRI 02-NOV-2000  
DEFINITION Homo sapiens mRNA for interleukin-1-like protein 1 (IL1L1 gene)  
transcript 2.  
ACCESSION AJ242738  
VERSION AJ242738.1 GI:6165335

REFERENCE  
AUTHORS human.  
Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.  
Barton,J.L., Herbst,R., Bosio,D., Higgins,L. and Nicklin,M.J.  
A tissue specific IL-1 receptor antagonist homolog from the IL-1  
cluster lacks IL-1, IL-1ra, IL-18 and IL-18 antagonist activities  
Eur. J. Immunol. 30 (11), 3299-3308 (2000)

TITLE  
AUTHORS Nicklin,M.J.  
JOURNAL Direct Submission  
Submitted (09-JUN-1999) Nicklin M.J., Division of Molecular and  
Genetic Medicine, University of Sheffield, Royal Hallamshire  
Hospital, Glossop Road, Sheffield, S10 2JF, UNITED KINGDOM  
LOCATION/Qualifiers  
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Best Local Similarity 100.0%; Pred. No. 6e-110;
Matches 468; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 73 ATGTCTCTGAGTGGGGCCCTGTGCTTCCGAATGAAGAGCTGGCATTAAGGCTTTAT 132
OY 61 ctgataataacagctctctagctgagaggtctgcatgcaaggaaggtcaataaagtgaa 120
DB 133 CTGCATAATAACACAGCTCTTACCTGAGGGCTGCATGCAGGAAGTCATTAAGGTGAA 192
OY 121 gagatcaagctgtgtcccaatcgctgagtgagtgccagcctgtcccccgtacactgtg 180
DB 193 GAGATCAGGCTGTGCTCCCAATGGTGGATGGCCAGCTTCCCGCTCATCTGGGT 252
OY 181 gtccagggttggaagcagctgtcctgcatgtgtggtggtggaagagcagacttaacacta 240
DB 253 GTCCAGGGGTGAAGCAGAGCTGTGATGTGGGGTGAGGCAAGACCCGACTTAACACTA 312
OY 241 gagcagtgaaacatcatgagctctatcttgctgccaagaatccaaagagcttcaccttc 300
DB 313 GAGCCAGTGAAACATCATGAGCTCTATCTTGCTGCCAAGAAATCCAAAGAGCTTACCTTC 372
OY 301 tacggcgaggacatggggtcaccctcagctcagctcagctcagctcagctcagctcagctc 360
DB 373 TACGGCGGAGACATGGGGCTACCTCCAGCTTCGAGTGGCTGCTTACCCGGGGTGGTTC 432
OY 361 ctgtgacagtgctgctgaaagcagatcagctgtcagactcaaccagcttcaccgaagaatgt 420
DB 433 CTGTGACAGGTGCTCGAAGCGCATCAGCCTGTCCACACTACCCAGCTTCCGAGAAATGTT 492
OY 421 ggcctgaatgcccccatcaacagactctactctcagcagtgtagtag 468
DB 493 GGCTGGAATGCCCCCATCACAAGACTTCTACTCCAGCAGGTGTGACTAG 540

RESULT 5
HSA242737 2613 bp mRNA PRI 02-NOV-2000
LOCUS Homo sapiens mRNA for interleukin-1-like protein-1 (IL1L1 gene),
DEFINITION transcript 1.
ACCESSION AJ242737.1 GI:6165333
VERSION AJ242737.1
KEYWORDS IL1L1 gene; interleukin-1-like protein-1.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 2613)
AUTHORS Barton,J.L., Herbst,R., Bosio,D., Higgins,L. and Nicklin,M.J.
TITLE A tissue specific IL-1 receptor antagonist homolog from the IL-1

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cluster lacks IL-1, IL-1ra, IL-18 and IL-18 antagonist activities
Eur. J. Immunol. 30 (11), 3299-3308 (2000)
JOURNAL MEDLINE 20545212
REFERENCE 2 (bases 1 to 2613)
AUTHORS Nicklin,M.J.
JOURNAL Direct Submission
TITLE Submitted (09-JUN-1999) Nicklin M.J., Division of Molecular and
Genetic Medicine, University of Sheffield, Royal Hallamshire
Hospital, Glossop Road, Sheffield, S10 2UF, UNITED KINGDOM
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DB 262 GTCCAGGGGTGAAGCAGAGCTGTGATGTGGGGTGAGGCAAGACCCGACTTAACACTA 321
OY 241 gagcagtgaaacatcatgagctctatcttgctgccaagaatccaaagagcttcaccttc 300
DB 322 GAGCCAGTGAAACATCATGAGCTCTATCTTGCTGCCAAGAAATCCAAAGAGCTTACCTTC 381
OY 301 tacggcgaggacatggggtcaccctcagctcagctcagctcagctcagctcagctcagctc 360
DB 382 TACGGCGGAGACATGGGGCTACCTCCAGCTTCGAGTGGCTGCTTACCCGGGGTGGTTC 441
OY 361 ctgtgacagtgctgctgaaagcagatcagctgtcagactcaaccagcttcaccgaagaatgt 420
DB 442 CTGTGACAGGTGCTCGAAGCGCATCAGCCTGTCCACACTACCCAGCTTCCGAGAAATGTT 501
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DB 502 GGCTGGAATGCCCCCATCACAAGACTTCTACTCCAGCAGGTGTGACTAG 549

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RESULT 6  
AX069309 2648 bp DNA PAT 25-JAN-2001  
LOCUS AX069309  
DEFINITION Sequence 6 from Patent WO0102571.  
ACCESSION AX069309  
VERSION AX069309.1 GI:12579181  
KEYWORDS  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.  
REFERENCE 1 (bases 1 to 2648)  
AUTHORS Ford, J. and Pace, A.  
TITLE A Interleukin-1 receptor antagonist and uses thereof  
JOURNAL Patent: WO 0102571-A 6 11-JAN-2001;  
HYSEQ, INC. (US)  
FEATURES  
source Location/Qualifiers  
1..2648  
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/db\_xref="taxon:9606"  
BASE COUNT 744 a 589 c 644 g 671 t  
ORIGIN  
Query Match 100.0%; Score 468; DB 10; Length 2648;  
Best Local Similarity 100.0%; Pred. No. 6e-110;  
Matches 468; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 atggtcttaagtgaggcgctgtgtcttcgaatgaagactcggcatggaagtgctttat 60  
DB 62 atggtcttaagtgaggcgctgtgtcttcgaatgaagactcggcatggaagtgctttat 121  
QY 61 ctgcataataacacagcttctgaagtgaggagctcagcagaggaagtcattaaagtgaa 120  
DB 122 ctgcataataacacagcttctgaagtgaggagctcagcagaggaagtcattaaagtgaa 181  
QY 121 gagatcagcgtgtgtcccaatcggtgtgtgagtcagcagcctgtcccgatccttggt 180  
DB 182 gagatcagcgtgtgtcccaatcggtgtgtgagtcagcagcctgtcccgatccttggt 241  
QY 181 gtcccaagtgaggagcagtgctgtatgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 240  
DB 242 gtcccaagtgaggagcagtgctgtatgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 301  
QY 241 gagcagtgagaaatcattgagcttctgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 300  
DB 302 gagcagtgagaaatcattgagcttctgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 361  
QY 301 taacggcggagacatggt 360  
DB 362 taacggcggagacatggt 421  
QY 361 ctgtgacagtgctgt 420  
DB 422 ctgtgacagtgctgt 481  
QY 421 ggtctgaatgtcccccatcagaacttctacttccagcagtgtagactag 468  
DB 482 ggtctgaatgtcccccatcagaacttctacttccagcagtgtagactag 529  
RESULT 7  
AF186094 2720 bp mRNA PRI 16-OCT-1999  
LOCUS AF186094  
DEFINITION Homo sapiens interleukin-1 receptor antagonist homolog (IL1HY1)  
ACCESSION AF186094  
VERSION AF186094.1 GI:6049804  
KEYWORDS  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

REFERENCE 1 (bases 1 to 2720)  
AUTHORS Mulero, J.J., Pace, A.M., Nelken, S.T., Loeb, D.B., Correa, T.R.,  
Dranac, R. and Ford, J.E.  
TITLE IL1HY1: A Novel Interleukin-1 Receptor Antagonist Gene  
JOURNAL Biochem. Biophys. Res. Commun. 265 (3), 702-706 (1999)  
PUBMED 10512743  
REFERENCE 2 (bases 1 to 2720)  
AUTHORS Mulero, J.J., Pace, A.M., Nelken, S.T., Loeb, D.B., Correa, T.R.,  
Dranac, R. and Ford, J.E.  
TITLE Direct Submission  
JOURNAL Submitted (13-SEP-1999) Functional Genomics, HYSEQ Inc., 670  
Almanor Ave., Sunnyvale, CA 94086, USA  
FEATURES  
source Location/Qualifiers  
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163..630  
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BASE COUNT 735 a 621 c 671 g 693 t  
ORIGIN  
Query Match 100.0%; Score 468; DB 88; Length 2720;  
Best Local Similarity 100.0%; Pred. No. 6e-110;  
Matches 468; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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DB 163 atggtcttaagtgaggcgctgtgtcttcgaatgaagactcggcatggaagtgctttat 222  
QY 61 ctgcataataacacagcttctgaagtgaggagctcagcagaggaagtcattaaagtgaa 120  
DB 223 ctgcataataacacagcttctgaagtgaggagctcagcagaggaagtcattaaagtgaa 282  
QY 121 gagatcagcgtgtgtcccaatcggtgtgtgagtcagcagcctgtcccgatccttggt 180  
DB 283 gagatcagcgtgtgtcccaatcggtgtgagtcagcagcctgtcccgatccttggt 342  
QY 181 gtcccaagtgaggagcagtgctgtatgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 240  
DB 343 gtcccaagtgaggagcagtgctgtatgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 402  
QY 241 gagcagtgagaaatcattgagcttctgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 300  
DB 403 gagcagtgagaaatcattgagcttctgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 462  
QY 301 taacggcggagacatggt 360  
DB 463 taacggcggagacatggt 522  
QY 361 ctgtgacagtgctgt 420  
DB 523 ctgtgacagtgctgt 582  
QY 421 ggtctgaatgtcccccatcagaacttctacttccagcagtgtagactag 468  
DB 583 ggtctgaatgtcccccatcagaacttctacttccagcagtgtagactag 630  
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AX069335 468 bp DNA PAT 25-JAN-2001  
LOCUS AX069335  
DEFINITION Sequence 32 from Patent WO0102571.

ACCESSION AX069335  
 VERSION AX069335.1 GI:12579200  
 KEYWORDS  
 SOURCE house mouse.  
 ORGANISM Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 REFERENCE 1 (bases 1 to 468)  
 AUTHORS Ford J., and Pace A.  
 TITLE A interleukin-1 receptor antagonist and uses thereof  
 JOURNAL Patent: WO 0102571-A 32 11-JAN-2001;  
 HYSEQ, INC. (US)  
 FEATURES  
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 Best Local Similarity 84.4%; Pred. No. 7.9e-80;  
 Matches 395; Conservative 0; Mismatches 73; Indels 0; Gaps 0;  
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 RESULT 9  
 AF230378 471 bp mRNA ROD 02-AUG-2000  
 LOCUS AF230378 Mus musculus Interleukin-1 delta mRNA, complete cds.  
 DEFINITION AF230378  
 ACCESSION AF230378  
 VERSION AF230378.1 GI:9651790  
 KEYWORDS  
 SOURCE house mouse.  
 ORGANISM Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 REFERENCE 1 (bases 1 to 471)  
 AUTHORS Debets, R., Timmans, J.C., Zurawski, S., Sana, T.R., Bazan, F. and Kastelein, R.A.  
 TITLE Novel IL-1 ligands IL-1d and IL-1e use IL-1R related protein 2  
 JOURNAL Unpublished

REFERENCE 2 (bases 1 to 471)  
 AUTHORS Kastelein, R.A., Timmans, J.C., Sana, T., Debets, R. and Bazan, F.  
 TITLE Direct Submission  
 JOURNAL Submitted (01-FEB-2000) Molecular Biology, DNAX Research Institute, 901 California Ave, Palo Alto, CA 94304, USA  
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 BASE COUNT 109 a 128 c 128 g 106 t  
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 Best Local Similarity 84.4%; Pred. No. 7.9e-80;  
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 Oy 61 ctgataataacagagctctcagctgaagagctgcatgcaaggagagtcattaaagtgaa 120  
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 Oy 181 gtccagaggtggaagcagctgtcctgcatgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 240  
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 Db 184 GTTCAAGAGAGAGCAAGTGGCTTATCTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 243  
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 Oy 421 ggctggaatgcccccatcacagacttctacttcagcagtgtagtag 468  
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 Db 424 GCCTGGAGTGTCTCCATCAGACTTCTTACAGAGTGTGACTAG 471  
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 AF200495 1283 bp mRNA ROD 11-MAY-2000  
 LOCUS AF200495 Mus musculus Interleukin-1 homolog 3 mRNA, complete cds.  
 DEFINITION AF200495  
 ACCESSION AF200495  
 VERSION AF200495.1 GI:7769117  
 KEYWORDS  
 SOURCE house mouse.  
 ORGANISM Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 REFERENCE 1 (bases 1 to 1283)  
 AUTHORS Kumar, S., McDonnell, P.C., Lehr, R., Tierney, L., Timmas, M.N., Griswold, D.E., Capper, E.A., Tal-Singer, R., Wells, G.I., Doyle, M.L.

TITLE	JOURNAL	MEDLINE	PUBMED	REFERENCE	AUTHORS	TITLE	JOURNAL	FEATURES	SOURCE
Identification and initial characterization of four novel members of the interleukin-1 family	J. Biol. Chem.	275 (14)	10308-10314 (2000)						
20209405			10744718						
2 (bases 1 to 1283)									
Direct Submission	Kumar,S., McDonnell,P.C. and Young,P.R.								
Submitted (01-NOV-1999)	Bone and Cartilage Biology, UW 2109, Smithline Beecham Pharmaceuticals, 709 Swedeland Rd., King of Prussia, PA 19406, USA								
location/Qualifiers									
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110. 577									
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325 a	317 c	309 g	332 t						

Query Match	Best Local Similarity	75.0%;	Score 351.25;	DB 94;	Length 1283;
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Db 110	ATGCTTCGACTGGGGCCACTATGCTTCGGAATGAAGGATTTGAGCCCTTGAAGTACTGTAT	169			
QY 61	ctgcataataacacagcctctctagctggaagagcttgatagcagaaggaagctatataaagtgtaa	120			
Db 170	CTGCACAAATTAACCAAGCTCTGCTGGAGGACTGCCACGACGAGAGAGGTATTTAAAGGTGAG	229			
QY 121	gagatcagcgtgtgtcccccacatcggctgtgctgtgatgtccagcctgtccccgcgtacatcctggt	180			
Db 230	GAGATCAGTGTGTGTCCCAATCGGGCACTGGATGCACATCTGTCCCTGTCACTCTGGGC	289			
QY 181	gtccagagtgaaacacagctgctgtcatatgttggtgtgtggcgagagcgacctaactata	240			
Db 290	GTTCAAGGAGGAAAGCCATGCTCTATCTTGTGTGGACAGAGAAAGGGCCAAATTCGTGAATTT	349			
QY 241	gagccagtgaaacatcatatgagctcatctatctgtgtccaaagaaatccaaagctltcaacttc	300			
Db 350	GAGCCAGTGAACATCAATGAGCTCTACTCTCGGGGCCAAGGAATCAAAAGCTTCACCTTC	409			
QY 301	taccggcgaggacatgagggtcactctcaagcttgagtggtgtgtgctaccgggctggttc	360			
Db 410	TACCGCGGGGATATGGGCTTACTCTCAAGCTTCAATTCGCTGCTTACCAGGCTGGTTC	469			
QY 361	cttgccagcagtgagcttgaaagccgatcaagcctgtacagactaccacaaagctcccgaaatggt	420			
Db 470	CTTGCAACCTCACCAGGAAGCTGACCAAGCGCTGTCAAGGCTCACTAGAGTCCCTGAGAGACCCC	529			
QY 421	ggctcggaatgcccccatacagaagcttactctccagcagtggtgactag	468			
Db 530	GCGTGAATGCTCCCATCACAGACTTGTACTTTACGAGAGTGTTGACTAG	577			

RESULT 11

LOCUS MMU250429

DEFINITION Mus musculus mRNA for IL-11 protein.

ACCSSION AJ250429

1284 bp

1284 bp

1284 bp

1284 bp

02-NOV-2000

02-NOV-2000

02-NOV-2000

02-NOV-2000

VERSION	AJ250429.1	GI:6165412
KEYWORDS	IL-12 protein.	
SOURCE	house mouse.	
ORGANISM	Mus musculus	
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.	
REFERENCE	1 (bases 1 to 1284)	
AUTHORS	Barton,J.L., Hebst,R., Bosisto,D., Hlaging,L. and Nicklin,M.J.	
TITLE	A tissue specific IL-1 receptor antagonist homolog from the IL-1 cluster lacks IL-1, IL-1ra, IL-18 and IL-18 antagonist activities	
JOURNAL	Eur. J. Immunol. 30 (11), 3259-3308 (2000).	
MEDLINE	20545212	
REFERENCE	2 (bases 1 to 1284)	
AUTHORS	Nicklin,M.J.H.	
TITLE	Direct Submission	
JOURNAL	Submitted (15-Oct-1999) Nicklin M.J.H., Division of Molecular and Genetic Medicine, University of Sheffield, Royal Hallamshire Hospital, Sheffield, S10 2TF, UNITED KINGDOM	
COMMENT	Related sequence: A1391190.	
FEATURES	Location/Qualifiers	
SOURCE	1..1284	

COMMENT	Related
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	/translation="MVLGSGALCFERKMSALKVLYLHNNOLLAGLHAEKYKGEISV VPRNADIASLPVILGVGGSCGLCEGPGILKEPVMIMELYLAESKSPFPR RDMGITSFESAAYPGWFELCTSPAADPVRLTQIRPDPAADATIDYFPOCD"
BASE COUNT	327 a 317 c 310 g 330 t
ORIGIN	
Query Match	75.0% Score 351.2; DB 94; Length 1284;
Best Local Similarity	84.4% Pred. No. 6.7e-80;
Matches 395; Conservative	0; Mismatches 73; Indels 0; Gaps 0;
OY 1	atgctcctgaatggggcgcctgtctctccgaatgaagacccgcgaattgaagtgcttat 60
DB 113	ATGGTTCTGAATGGGGCCTATGCTTCCGAATGAAGGATTAGCCTTTAAGTACTGTAT 172
OY 61	ctgcataataaccagctctctagcttgaagggctgcatagcagggaaggtcatataaagttaa 120
DB 173	CTGCACATAATACCAAGCTCTGGCTGGAGAGACTGCACGCAGAGAAGGTCATTAAAGGTGAG 232
OY 121	gagatcagcgtgtgtcccaatcagtgctgtgatagtgcatagcagcctgtcccccgtatcctgtgt 180
DB 233	GAGATCACTGTTGTGCCCAATTCGGGCACATGGATGCGCACTGTGCCCTGTATCCTGGGC 292
OY 181	gtccaggttgaagccagtgctgtgtcagatgttggtgtgggcaggagccgactctaacta 240
DB 293	GTTCAAGGAGGAGCCCATGCTTATCTTGTGGGACAGAAAGGGCCAAATCTGAAACTT 352
OY 241	gagccaggaacacatcatgtgactctatcttgttgccaaggaatccaagaagcttcaccttc 300
DB 353	GAGCCAGTGAACATCATGTGAGACTTACTCTCGGGGCCAAAGGATCAAGAAGCTTCAACTTC 412
OY 301	taccgcgaggacatgtggctcactccagcttcagatcagatcgtgtgctctaccggagctgtgtc 360
DB 413	TACCGGGGGGATATGGGCTTACCTCCAGCTTCGAATCCGGCTGCCTACCCAGGGGTGC 472
OY 361	ctgtgcacggtgtcctgaagccgatcagcctgttcagactaccacagcttcccgagaagtgt 420
DB 473	CTCTGCACCTTCACCGGAAGCTGACCCAGGCTGTGCAGGCTCACTCAGATCCCTGAGGACCCC 532
OY 421	ggctggatgcccacatcaagactctactctcaagagtgtagcttg 468
DB 533	GCGCGAGATGCTCCATTCACAGACTTCTACTTTAGCAGATGTGACTAG 560

RESULT	12					
AX069304	LOCUS	AX069304	357 bp	DNA	PAT	25-JAN-2001
DEFINITION	Sequence 1 from Patent WO0102571.					
ACCESSION	AX069304					
VERSION	AX069304.1					
KEYWORDS	GI:12579176					
SOURCE	human.					
ORGANISM	Homo sapiens Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.					
REFERENCE	1 (bases 1 to 357)					
AUTHORS	Ford,J. and Pace,A.					
TITLE	A interleukin-1 receptor antagonist and uses thereof					
JOURNAL	Patent: WO 0102571-A 1 11-JAN-2001;					
FEATURES	HYSEQ, INC. (US) Location/Qualifiers source 1..357 /organism="Homo sapiens" /db_xref="taxon:9606"					
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Best Local Similarity	100.0%; Pred. No. 5e-52;					
Matches 243; Conservative	0; Mismatches 0; Indels 0; Gaps 0.					
OY	226 ccgactctaacctagagccagtagaatcatcggaacctatcttggtgccaaagaatcc 285					
DB	1 CCGACTCTRACACTTAGAGCCAGTGAACATCATGGAAGCTTTATCTTGTCCTCAAGGAAATCC 60					
OY	286 aagaagcttcaacctttacccggcgggacatggygctcaacctcaagcttcgaagtgcgtccc 345					
DB	61 AAGAGCTTCACCTCTTACCGGGCGGCAGATCGGGAGCTCACCTCCAGCTTCGAGTCGGCTGCC 120					
OY	346 taaccgggctggttctctgtgcacagtgctcgtgaagccgaactcgaactgaagtaaccgg 405					
DB	121 TACCCGGGTGTTCTCCTGTGCACGGGTCTGAAGCCGATCACCCTGTTCAGACTCACCCAG 180					
OY	406 ctcccgagaatggtgctcgtgaatgcccccatcacagaacttctaacttcagcagtgtagc 465					
DB	181 CTTCGCGAATAGTGGCTCGGAATGCCCATCAGAGACTTCTACTTCCAGCAGTGTGAC 240					
OY	466 tag 468					
DB	241 TAG 243					
RESULT	13					
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DEFINITION	Sequence 2 from Patent WO0102571.					
ACCESSION	AX069305					
VERSION	AX069305.1					
KEYWORDS	GI:12579177					
SOURCE	human. Homo sapiens Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.					
REFERENCE	1 (bases 1 to 985)					
AUTHORS	Ford,J. and Pace,A.					
TITLE	A interleukin-1 receptor antagonist and uses thereof					
JOURNAL	Patent: WO 0102571-A 2 11-JAN-2001;					
FEATURES	HYSEQ, INC. (US) Location/Qualifiers source 1..985 /organism="Homo sapiens" /db_xref="taxon:9606"					
CDS	<1..243					

QY	226	ccgactctaaacctaagaccagtagaactatcaatgagagctctatctgtgtgccaaagaatcc	285	/note="unnamed protein product /codon_start=1 /protein_id="CAC27297.1" /db_xref="GI:12579178" /translation="PTLLEPVNIMELYLGAKESKSEFTFYRDMGLTSSPESAYPGM FLCTVPEADQDVPRLTOLPENGMNAPTIDFEYFOOD"
Db	1	ccgactctaaacctaagaccagtagaactatcaatgagagctctatctgtgtgccaaagaatcc	60	
QY	286	aagagcttcaaccttaccggtgcgagacatgaggtctcactccagcttcgaftcgtgtgc	345	
Db	61	aagagcttcaaccttaccggtgcgagacatgaggtctcactccagcttcgaftcgtgtgc	120	
QY	346	taccgggagctgtgttcctgtgtcaaggtgtgcctgaagccgatccagctcgttaagatcccaag	405	
Db	121	taccgggagctgtgttcctgtgtcaaggtgtgcctgaagccgatccagctcgttaagatcccaag	180	
QY	406	cttcccgagaaatggtgtgtcgtggaatcccccatcacagagcttacttccagcagtgtagc	465	
Db	181	cttcccgagaaatggtgtgtcgtggaatcccccatcacagagcttacttccagcagtgtagc	240	
QY	466	tag 468		
Db	241	tag 243		
RESULT	14			
LOCUS	AX069310	5751 bp	DNA	25-JAN-2001
DEFINITION	Sequence 7 from Patent WO0102571.			
ACCESSION	AX069310			
VERSION	AX069310.1	GI:12579182		
KEYWORDS				
SOURCE	human.			
ORGANISM	Homo sapiens			
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.			
AUTHORS	1 (bases 1 to 5751)			
TITLE	Ford, J. and Pace, A.			
JOURNAL	A interleukin-1 receptor antagonist and uses thereof Patent: WO 0102571-A 7 11-JAN-2001;			
FEATURES	HYSEQ, INC. (US)			
SOURCE	Location/Qualifiers 1..5751 /organism="Homo sapiens" /db_xref="taxon:9606"			
BASE COUNT	1466 a 1274 c 1489 g 1383 t	139 others		
ORIGIN				
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Best Local Similarity	100.0%; Pred. No. 4.3e-52;			
Matches 243; Conservative	0; Mismatches 0; Indels 0; Gaps 0;			
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Best Local Similarity	100.0%; Pred. No. 4.1e-48;			
Matches 227; Conservative	0; Mismatches 0; Indels 0; Gaps 0;			
QY	242	agccagtgacaatcatatgagctctatcttgtgtccaaagaatccaaagagcttcaactct	301	
Db	4073	agccagtgacaatcatatgagctctatcttgtgtccaaagaatccaaagagcttcaactct	4132	
QY	302	accgagcgagacatgggtggtcaccctcagctcgaatgagctgtcctcaccggagctgttcc	361	
Db	4133	accgagcgagacatgggtggtcaccctcagctcgaatgagctgtcctcaccggagctgttcc	4192	
QY	362	tgtagcagtgctcgaagccagatcagctgttcagatcaaccagcttcccgagaatgtg	421	





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GenCore version 4.5  
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OM nucleic - nucleic search, using sw model

Run on: May 31, 2001, 07:36:51 ; Search time 127.02 Seconds

(without alignments)  
2150.918 Million cell updates/sec

Title: US-09-612-921-3

Perfect score: 468  
Sequence: 1 atggctcgtgagtgaggcgcct.....actccagcagtgactag 468

Scoring table: IDENTITY NUC  
Gapop 10.0, Gapext 1.0

Searched: 678276 seqs, 291890651 residues

Total number of hits satisfying chosen parameters: 1356552

Minimum DB seq length: 0

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Post-processing: Minimum Match 0%

Maximum Match 100%  
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	468	100.0	468	20	X89432 Human interleukin
2	468	100.0	468	21	A51597 Human IL-1 recepto
3	468	100.0	766	21	A09193 Human IL-1 homolo
4	468	100.0	1282	20	Z30050 cDNA encoding a hu
5	468	100.0	1323	21	Z50812 Human TANGO-93 CD
6	468	100.0	2490	21	Z50813 Human TANGO-93 CD
7	468	100.0	2648	20	Z30051 cDNA encoding a hu
8	351.2	75.0	468	22	C81700 Murine interleukin
9	351.2	75.0	1275	21	A09198 Murine IL-1 homolo
10	351.2	75.0	1360	21	Z50811 Murine TANGO-93 CD
11	351.2	75.0	1385	21	A51599 Murine IL-1 recept

12	350.2	74.8	470	19	V71958
13	348.2	74.4	468	20	X89431
14	330.8	70.7	465	21	A09194
15	328	70.1	465	21	A09195
16	243	51.9	358	20	Z30048
17	241.4	51.6	985	20	Z30049
18	236	50.4	295	21	A51598
19	227	48.5	5752	20	Z30052
20	227	48.5	7605	20	Z30053
21	208.6	44.6	382	21	A51600
22	111.8	23.9	531	17	T33256
23	111.8	23.9	531	17	T13177
24	111.8	23.9	531	17	T30158
25	111.8	23.9	557	16	O89792
26	110.8	23.7	998	22	A89175
27	110.2	23.5	465	14	O40754
28	110.2	23.5	462	18	T38808
29	110.2	23.5	462	19	V36455
30	110.2	23.5	514	16	O83763
31	110.2	23.5	514	18	T72210
32	110.2	23.5	514	20	X82158
33	110.2	23.5	531	17	T35255
34	110.2	23.5	531	17	T30157
35	110.2	23.5	531	17	T30159
36	110.2	23.5	532	12	O14693
37	110.2	23.5	540	10	N92441
38	110.2	23.5	543	19	V22666
39	110.2	23.5	577	20	Z09793
40	110.2	23.5	578	20	Z09794
41	110.2	23.5	579	17	T15099
42	110.2	23.5	589	16	O90813
43	110.2	23.5	600	10	N92443
44	110.2	23.5	600	14	O40753
45	110.2	23.5	602	19	V65260

#### ALIGNMENTS

RESULT 1	
X89432	
ID	X89432 standard; DNA; 468 BP.
XX	
AC	X89432;
XX	
DT	28-SEP-1999 (first entry)
XX	
DE	Human interleukin 1 delta encoding DNA.
XX	
KW	interleukin 1 delta; IL-1 delta; glaucoma; ectodermal dysplasia;
KW	insulin-dependent diabetes mellitus; wrinkly skin syndrome;
KW	T-cell leukemia; lymphoma; tibial muscular dystrophy; ss.
XX	
OS	Homo sapiens.
XX	
FH	Key
FT	CDS
FT	Location/Qualifiers
FT	1..468
FT	/tag= a
FT	/product= "IL-1 delta"
XX	
PN	W09935268-A1.
XX	
PD	15-JUL-1999.
XX	
PF	08-JAN-1999; 99WO-US00514.
XX	
PR	01-JUN-1998; 98US-0087393.
XX	
PR	09-JAN-1998; 98US-0071074.
XX	
PA	(IMMV ) IMMUNEX CORP.
XX	
PI	Sims JE;
XX	

Rodent interleukin  
Mouse interleukin  
Human IL-1 homolo  
Human IL-1 homolo  
cDNA encoding a hu  
cDNA encoding a hu  
Human IL-1 recepto  
DNA encoding a hum  
Murine IL-1 recept  
Human interleukin-  
Human interleukin-  
Interleukin-1 rece  
IL-1ra gene. Homo  
Human interleukin-  
IL-1 inhibitor (IL  
Recombinant human  
Recombinant human  
Plasmid 15424. Sy  
DNA encoding leade  
Leaderless IL-1 re  
Human interleukin-  
Interleukin-1 rece  
Interleukin-1 rece  
IRAP gene. Homo s  
Sequence of bps 61  
cDNA encoding an I  
IRAP conserved DNA  
ICIRAP conserved D  
Intracellular IL-1  
Human IL-1 recepto  
Sequence of GT10-I  
GT10-IL-11-2A frag  
Human intracellular

DR WPI: 1999-458310/38.  
 DR P-PSDB: Y28408.  
 PT Murine and Human interleukin 1 delta DNA, polypeptides and its  
 XX fragments, useful as molecular weight markers  
 XX  
 PS Claim 1; Page 68; 72pp; English.  
 CC The present sequence encodes human interleukin 1 delta (IL-1 delta).  
 CC IL-1 delta proteins are useful for the determination of the molecular  
 CC weight of a sample protein. The protein and its fragments are useful as  
 CC controls for peptide fragmentation. This is useful for determining the  
 CC isoelectric point of a sample protein. Antibodies generated against  
 CC IL-1 delta and its fragmented peptides can be used to enhance the  
 CC accuracy of these molecular weight markers to determine the apparent  
 CC molecular weight and isoelectric point of a sample protein. IL-1 delta  
 CC can be used to screen for potential inhibitors of activity associated  
 CC with IL-1 delta counter-structure molecules. IL-1 delta can also be used  
 CC as therapeutic agents for the treatment of diseases mediated by IL-1  
 CC delta. IL-1 delta may be used as a reagent in studying the interleukin 1  
 CC (IL-1) signalling pathway, or as a reagent to block IL-1 signalling. The  
 CC IL-1 delta coding sequences can be used to identify human chromosome 2,  
 CC and to identify genes associated with certain diseases, especially with  
 CC region 2q11-12, including glaucoma, ectodermal dysplasia, insulin-  
 CC dependent diabetes mellitus, wrinkly skin syndrome, T-cell leukemia/  
 CC lymphoma and tibial muscular dystrophy.  
 CC  
 XX Sequence 468 BP; 95 A; 128 C; 142 G; 103 T; 0 other;  
 SO

Query Match 100.0%; Score 468; DB 20; Length 468;  
 Best Local Similarity 100.0%; Pred. No. 3,4e-127;  
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 Db 1 atgtgccgagtgaggcgctgctgctcgaatgaagagctcggcgtgaagtgttat 60  
 Oy 61 ctgtcataaaccagctctactgtgagtgctgcatgacgaggaagtcattaaagttaa 120  
 Db 61 ctgtcataaaccagctctactgtgagtgctgcatgacgaggaagtcattaaagttaa 120  
 Oy 121 gagatcagcgtgtgtcccaatcgtgtgagtgacgagcctgtcccgctcatcctgg 180  
 Db 121 gagatcagcgtgtgtcccaatcgtgtgagtgacgagcctgtcccgctcatcctgg 180  
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 Db 301 tacggcgaggacatgaggctcactcagctcgaatcgagctgcttaccgggctgtgttc 360  
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 Db 421 ggcctgaatgccccatcacagactctacttcacgacgttgatag 468

RESULT 2  
 ID A51597  
 AC A51597;  
 XX A51597;  
 XX

DT 31-Oct-2000 (first entry)  
 XX  
 DE Human IL-1 receptor antagonist 3 DNA.  
 XX  
 KW hIL-1ra3; human interleukin-1 receptor antagonist-3; IL-1lp; osteopathic;  
 KW interleukin-1-like polypeptide; anti-inflammatory; anti-asthmatic;  
 KW anti-arthritis; antimicrobial; respiratory; anti-ischemic; vaccine;  
 KW dermatological; immunomodulatory; gastrointestinal; gene therapy; ds.  
 XX  
 OS Homo sapiens.  
 XX  
 FT Key Location/Qualifiers  
 FT CDS 1..468  
 FT /\*tag= a  
 FT /product= hIL-1ra3  
 XX  
 XX MO200039297-A2.  
 XX  
 XX 06-JUL-2000.  
 XX  
 XX 22-DEC-1999; 99WO-US30720.  
 XX  
 XX 23-DEC-1998; 98US-0113430.  
 XX 22-JAN-1999; 99US-0116843.  
 XX 13-APR-1999; 99US-0129122.  
 XX  
 XX (GETH ) GENENTECH INC.  
 XX  
 XX Goddard A. Pan J;  
 XX  
 XX WPI: 2000-452395/39.  
 XX P-PSDB: Y96936.  
 XX  
 XX Nucleic acids encoding interleukin-1-like polypeptides, useful for  
 XX preventing and treating e.g. inflammation, asthma and psoriasis  
 XX  
 XX Claim 7; Fig 7; 143pp; English.  
 XX  
 XX An isolated nucleic acid molecule encoding an interleukin-1-like  
 XX polypeptide (IL-1lp) that retains one or more activities of the peptide  
 XX from which it is derived, such as the IL-18R binding activity of a human  
 XX interleukin-1 receptor antagonist-1 (hIL-1Ra1) polypeptide. Is new. The  
 XX nucleic acids may be used in molecular engineering applications, e.g.  
 XX hybridization assays and chromosome and gene mapping studies, for  
 XX recombinantly producing the IL-1lp polypeptide or for producing gene  
 XX knock out animals to study the role of the protein in metabolism and  
 XX disease processes (conversely, gene therapy protocols may be used to  
 XX supplement a patient's production of the polypeptide or to rectify  
 XX mutations that lead to the production of an active peptide). The  
 XX peptides produced may be used to screen for and produce modulators (e.g.  
 XX antibodies) of IL-1lp protein expression and activity which may be use  
 XX to treat disorders associated with inappropriate IL-1lp expression and  
 XX activity, such as inflammatory disorders, asthma, arthritis,  
 XX osteoarthritis, sepsis, acute lung injury, adult respiratory distress  
 XX syndrome, idiopathic pulmonary fibrosis, ischemic reperfusion disease,  
 XX psoriasis, graft versus host disease and/or inflammatory bowel disease.  
 XX  
 SO Sequence 468 BP; 95 A; 128 C; 142 G; 103 T; 0 other;  
 Query Match 100.0%; Score 468; DB 21; Length 468;  
 Best Local Similarity 100.0%; Pred. No. 3,4e-127;  
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 Oy 61 ctgtcataaaccagctctactgtgagtgctgcatgacgaggaagtcattaaagttaa 120  
 Db 61 ctgtcataaaccagctctactgtgagtgctgcatgacgaggaagtcattaaagttaa 120  
 Oy 121 gagatcagcgtgtgtcccaatcgtgtgagtgacgagcctgtcccgctcatcctgg 180

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|||||
Db 121 gagatcagcgtggtcccaatcgtgctgtagcagcctgtcccccgtcatcctgggt 180
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Db 361 ctgtgacagctgctcctgaagcagctgtagcagcttcagcagcttcagcagatgt 420
Oy 421 ggcctggaatgcccccatcacagactctacttcacagagtgtagctag 468
Db 421 ggcctggaatgcccccatcacagactctacttcacagagtgtagctag 468

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RESULT 3
A09193 ID A09193 standard; DNA; 766 BP.
AC A09193;
XX
DT 10-AUG-2000 (first entry)
DE Human IL-1 homologue, hzllia3 coding sequence.
XX
KM Generic: interleukin-1; IL-1; homologue; zllia3; anti-inflammatory;
KM antgenistic; pro-inflammatory; agonist; immunomodulator; antiarthritic;
KM antirheumatic; osteopathic; antipsoriatic; antibacterial; cytostatic;
KM immunosuppressive; antitumor; antidiabetic; nephrotropic; vasotropic;
KM vulnerability; 2q14; ss.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT CDS 72..539
FT FT /*tag= a
FT PN MO200020595-A1.
XX
PD 13-APR-2000.
XX
PF 08-OCT-1999; 99WO-US23533.
XX
PR 08-OCT-1998; 98US-0169745.
XX
PA (ZYMO ) ZYMOGENETICS INC.
PI Sheppard PO, West RR, Clegg CH;
PI WPI: 2000-303780/26.
DR P-PSDB; Y92257.
XX
PT Proteins useful for treatment of inflammatory conditions such as
PT Rheumatoid arthritis and psoriasis are agonists or antagonists forms of
PT new interleukin-1 homologue
XX
PS Disclosure: Page 51-52; 64pp; English.
XX
CC This DNA encodes an interleukin-1 (IL-1) homologue, designated zllia3.
CC The zllia3 gene maps to chromosome 2q14 and showed linkage to framework
CC marker AFMA037xfl with a LOD score of 13.
CC It is believed that zllia3 acts through IL-1 receptors. In general,
CC zllia3 proteins having a Lys residue at position 148 will have
CC anti-inflammatory activity (e.g. Y92256), whilst those having Asp

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CC (see Y92254) or Glu at this position will have pro-inflammatory action.
CC zllia3 is used to modulate an immune response in an animal (claimed).
CC Antagonists zllia3 forms may be used to treat or prevent chronic
CC inflammatory diseases such as rheumatoid arthritis, osteoarthritis and
CC Lyme arthritis, psoriasis, to reduce tissue damage after ischemia, to
CC treat septic shock, graft-versus-host disease and leukemia.
CC The antagonists may also alleviate inflammatory bowel disease including
CC Crohn's disease and ulcerative colitis, insulin-dependent diabetes
CC mellitus, acute pancreatitis, glomerulonephritis and cerebral ischemia.
CC Agonist forms of zllia3 may promote wound healing by IL-1 effects on
CC growth factor secretion and cell proliferation. They may also treat
CC infections, especially gastrointestinal infections.
XX
SQ Sequence 766 BP; 154 A; 214 C; 230 G; 168 T; 0 other;

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Query Match 100.0%; Score 468; DB 21; Length 766;
Best Local Similarity 100.0%; Pred. No. 4,1e-127;
Matches 468; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 132 ctgcataataaccagcttctagctggaaggctgcatgacagggatcaatgaaggtagaa 191
Oy 121 gagatcagcgtgtgtcccaatcgtgtgctgtagtcagcagctgtcccgctatcctggt 180
Db 192 gagatcagcgtgtgtcccaatcgtgtgctgtagtcagcagctgtcccgctatcctggt 251
Oy 181 gtcccaagggaagcagcagctgctatctggtggaagcagcagcagcagcagcagcagc 240
Db 252 gtcccaagggaagcagcagctgctatctggtggaagcagcagcagcagcagcagcagc 311
Oy 241 gagcagctgaacatcctgagctctatctgtgtgcgaaggaatcccaagagctcacctc 300
Db 312 gagcagctgaacatcctgagctctatctgtgtgcgaaggaatcccaagagctcacctc 371
Oy 301 tacggcgagggaatggtggtcctacccagcttcagtcggtcgtcctacccgggtgttc 360
Db 372 tacggcgagggaatggtggtcctacccagcttcagtcggtcgtcctacccgggtgttc 431
Oy 361 ctgtgacagctgctcctgaagcagctgtagcagcttcacccagcttcagcagatgt 420
Db 432 ctgtgacagctgctcctgaagcagctgtagcagcttcacccagcttcagcagatgt 491
Oy 421 ggcctggaatgcccccatcacagactctacttcacagagtgtagctag 468
Db 492 ggcctggaatgcccccatcacagactctacttcacagagtgtagctag 539

```

```

RESULT 4
Z30050 ID Z30050 standard; cDNA; 1282 BP.
XX
AC Z30050;
XX
DT 26-JAN-2000 (first entry)
DE cDNA encoding a human interleukin-1 receptor antagonist.
XX
KM Human; interleukin-1 receptor; IL-1; antagonist; sepsis;
KM acute pancreatitis; endotoxic shock; cytokine induced shock;
KM Rheumatoid arthritis; chronic inflammatory arthritis;
KM pancreatic cell damage; diabetes mellitus type 1;
KM graft versus host disease; inflammatory bowel disease;
KM inflammation; pulmonary disease; autoimmune disease;
KM inflammatory disease; antiproliferative; myelogenous leukemia;
KM premature labor; intrauterine infection; nutritional activity;
KM hematopoiesis regulating activity; tissue growth activity;
KM activin activity; inhibin activity; chemotactic activity;

```

KW chemokine activity; hemostatic activity; thrombolytic activity;  
 KM anti-inflammatory activity; ss.  
 XX Homo sapiens.  
 PN W09951744-A2.  
 PD 14-OCT-1999.  
 XX  
 PF 05-APR-1999; 99WO-US04291.  
 XX  
 PR 03-APR-1998; 98US-0055010.  
 PR 15-MAY-1998; 98US-0079909.  
 PR 20-MAY-1998; 98US-0082364.  
 PR 19-JUN-1998; 98US-0099818.  
 PR 31-JUL-1998; 98US-0127698.  
 PR 13-JAN-1999; 99US-0229591.  
 PR 17-FEB-1999; 99US-0251370.  
 XX  
 PA (HYSE-) HYSEQ INC.  
 XX  
 PI Drmanac R, Crkvenjakov R, Dickson M, Drmanac S, Labat I;  
 PI Leshkowitz D, Kita D, Ford J, Pace A, Alfemito M;  
 XX  
 DR WPI: 1999-611042/52.  
 DR P-PSDB; Y43526.  
 XX  
 PT New isolated interleukin-1 receptor binding polypeptides, used to treat  
 PT e.g. sepsis, shock, arthritis, pancreatitis, graft-versus-host disease,  
 PT inflammatory disease, autoimmune disease or proliferative disease -  
 XX  
 PS Claim 1; Fig 5; 123pp; English.  
 XX  
 CC The present sequence encodes a human interleukin-1 (IL-1) receptor  
 CC antagonist. The encoded polypeptide is capable of binding IL-1  
 CC receptors (IL-1Rs). The polynucleotides and polypeptides can be used for  
 CC the prevention or treatment of disorders involving sepsis, acute  
 CC pancreatitis, endotoxic shock, cytokine induced shock, rheumatoid  
 CC arthritis, chronic inflammatory arthritis, pancreatic cell damage from  
 CC diabetes mellitus type 1, graft versus host disease, inflammatory bowel  
 CC disease, inflammation associated with pulmonary disease, other autoimmune  
 CC disease or inflammatory disease, an antiproliferative agent such as for  
 CC acute or chronic myelogenous leukemia or in the prevention of premature  
 CC labor secondary to intrauterine infections. They can also exhibit  
 CC activities such as e.g. nutritional activity, cytokine and cell  
 CC proliferation/differentiation activity, immune stimulating or  
 CC suppressing activity, hematopoiesis regulating activity, tissue growth  
 CC activity, activin/inhibin activity, chemotactic/chemokinetic activity,  
 CC hemostatic and thrombolytic activity, receptor/ligand activity, and  
 CC anti-inflammatory activity. The products can also be used for  
 CC detection, diagnosis and drug screening.  
 XX  
 SQ Sequence 1282 BP; 293 A; 337 C; 350 G; 301 T; 1 other:  
 Query Match 100.0%; Score 468; DB 20; Length 1282;  
 Best Local Similarity 100.0%; Pred. No. 5e-127;  
 Matches 468; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 253 gtccagggtggaagccagtcgtctcatgttggtgggtggcagagccgacttaacacta 312  
 Qy 241 gagccagtgaaacatcatggaactctatctgtgtccaaaggaatccagagcttacctc 300  
 Db 313 gagccagtgaaacatcatggaactctatctgtgtccaaaggaatccagagcttacctc 372  
 Qy 301 taccgagcgagacatggtggtcactccagcttcagagtcgtcgtccacccggtctg 360  
 Db 373 taccgagcgagacatggtggtcactccagcttcagagtcgtcgtccacccggtctg 432  
 Qy 361 ctgtgacagtggtcgtgaagccgcatcagctgtcagactcaccagctccgagaatggt 420  
 Db 433 ctgtgacagtggtcgtgaagccgcatcagctgtcagactcaccagctccgagaatggt 492  
 Qy 421 ggcctggaatgcccccatcacagactctcactccagcagtgtagctag 468  
 Db 493 ggcctggaatgcccccatcacagactctcactccagcagtgtagctag 540

RESULT 5  
 250812  
 ID Z50812 standard; cDNA; 1323 BP.  
 AC Z50812;  
 XX  
 DT 31-MAY-2000 (first entry)  
 DE Human TANGO-93 CDNA.  
 XX  
 KW TANGO-93; cytokine; human; secreted protein; IL-1 expression; cancer;  
 KW Interleukin-1 receptor antagonist; IL-1ra; inflammation; antiasthmatic;  
 KW immunosuppressive; antirheumatic; antiarthritic; antipsoriatic; forensic;  
 KW antineoplastic; antibacterial; antidiabetic; psoriasis; ulcerative colitis;  
 KW osteoporotic; dermatological; rheumatoid arthritis; inflammatory bowel disease;  
 KW graft vs.-host disease; Crohn's disease; chronic myelogenous leukemia;  
 KW septic shock; cachexia; Hodgkin's disease; Lyme disease;  
 KW liver disease; diabetes; osteoarthritis; pharmacogenomic; chromosome 2;  
 KW autoimmune disease; myasthenia gravis; pharyngeal cancer; chromosome 2;  
 KW diagnosis; asthma; systemic lupus erythematosus; transgenic animal; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 FH Key Location/Qualifiers  
 FT CDS 57..524  
 FT /tag= a  
 FT /product= "Human TANGO-93 protein"  
 FT /note= "Has 53% homology to human Interleukin-1 receptor  
 FT antagonist (IL-1ra)"  
 FT 525..1323  
 FT 3'UTR /tag= b  
 FT  
 FT  
 XX  
 PN W0200008045-A2.  
 PD 17-FEB-2000.  
 XX  
 PF 06-AUG-1999; 99WO-US17886.  
 PR 07-AUG-1998; 98US-0131263.  
 XX  
 PA (MILL-) MILLENNIUM BIOTHERAPEUTICS INC.  
 PI Pan Y;  
 DR WPI: 2000-205669/18.  
 DR P-PSDB; Y45062.  
 XX  
 PT Isolated nucleic acid sequences encoding TANGO-93 polypeptide useful  
 PT for treating a variety of cellular processes e.g. asthma, rheumatoid  
 PT arthritis, psoriasis and autoimmune diseases  
 XX  
 PS Claim 2a; Fig 2; 113pp; English.  
 XX  
 CC The present sequence is the cDNA encoding the human TANGO-93, a







KM graft versus host disease; acute respiratory distress syndrome; allergy;  
 KM asthma; restenosis; stroke; ischaemia; brain injury; AIDS; bone disease;  
 KM osteoporosis; cancer; lymphoproliferative disorder; atherosclerosis;  
 KM congestive heart failure; Alzheimer's disease; immunosuppressive;  
 KM antimicrobial; neuroprotective; ss.  
 XX  
 OS Mus musculus.  
 XX  
 XX WO200071583-A1.  
 XX  
 XX 30-NOV-2000.  
 XX  
 PD 24-MAY-2000; 2000WO-US14200.  
 XX  
 XX 24-MAY-1999; 99US-0135599.  
 XX  
 XX 23-MAY-2000; 2000US-0577715.  
 XX  
 PA (SMK ) SMITHKLINE BEECHAM CORP.  
 PA (SMK ) SMITHKLINE BEECHAM PLC.  
 XX  
 PI Smith RF, Young PR, McDonnell PC, Halsey W;  
 XX  
 DR WPI: 2001-025138/03.  
 DR P-PSDB; BA8828.  
 XX  
 XX Murine interleukin-1 homolog polypeptide used for screening modulators  
 PT of the polypeptide which can be used for treating autoimmune diseases,  
 PT cancer, brain injury and bone disorders  
 XX  
 PS Claim 1: Page 28; 31pp; English.

CC The invention relates to murine Interleukin-1 homologue 3 (IL-1H3;  
 CC B48828) and nucleic acids which encode it (cDNA given in C81700).  
 CC including nucleic acid sequences with at least 95% identity to C81700.  
 CC The invention also relates to expression vectors and host cells  
 CC comprising murine IL-1H3 nucleic acids, the recombinant production of  
 CC murine IL-1H3, methods of screening for modulators of IL-1H3 activity,  
 CC and IL-1H3 agonists and antagonists thus identified. IL-1H3 agonists and  
 CC antagonists are of use for treating human diseases such as chronic or  
 CC acute inflammation, septicemia, autoimmune diseases (e.g.,  
 CC inflammatory bowel disease, psoriasis and arthritis), transplant  
 CC rejection, graft versus host disease, infection, stroke, ischaemia,  
 CC acute respiratory distress syndrome, allergies, asthma, restenosis,  
 CC brain injury, AIDS, bone diseases (e.g., osteoporosis), cancers  
 CC (e.g., lymphoproliferative disorders), congestive heart failure,  
 CC atherosclerosis and Alzheimer's disease. The present sequence  
 CC represents cDNA encoding murine IL-1H3.  
 XX  
 XX Sequence 468 BP; 108 A; 128 C; 127 G; 105 T; 0 other;

Query Match 75.0%; Score 351.2; DB 22; Length 468;  
 Best Local Similarity 84.4%; Pred.No.4,1e-93;  
 Matches 395; Conservative 0; Mismatches 73; Indels 0; Gaps 0;

QY 1 atgtctcgtgagtggtggtgctgtgcttcgcgaatgaaggaactcgagctatgaagtgcttat 60  
 DB 1 atgtctcgtgagtggtggtgctgtgcttcgcgaatgaaggaactcgagctatgaagtgcttat 60  
 QY 61 ctgcataataaccagcttcagctgagggagctgcatgagggaaaggtcaataagtgaa 120  
 DB 61 ctgcataataaccagcttcagctgagggagctgcatgagggaaaggtcaataagtgaa 120  
 QY 121 gagatcagcgtgtgcccacacgtgagctgagatgacagcttcctccctcatcctgggt 180  
 DB 121 gagatcagcgtgtgcccacacgtgagctgagatgacagcttcctccctcatcctgggt 180  
 QY 122 gagatcagcgtgtgcccacacgtgagctgagatgacagcttcctccctcatcctgggt 180  
 DB 122 gagatcagcgtgtgcccacacgtgagctgagatgacagcttcctccctcatcctgggt 180  
 QY 181 gtccaggtgtgaagcagcagctgcatgctgagtggtggtgagcagagacccgagcttaacacta 240  
 DB 181 gtccaggtgtgaagcagcagctgcatgctgagtggtggtgagcagagacccgagcttaacacta 240  
 QY 241 gggcaggtgaacatcatgagctctatcttggtgcgaaggaatcgaagcttcaccttc 300  
 DB 241 gggcaggtgaacatcatgagctctatcttggtgcgaaggaatcgaagcttcaccttc 300

DB 241 gggcaggtgaacatcatgagctctatcttggtgcgaaggaatcgaagcttcaccttc 300  
 QY 301 taccgcggagacatgagggtccaccctccagcttcagatgctgctgctaccggagctgttc 360  
 DB 301 taccgcggagacatgagggtccaccctccagcttcagatgctgctgctaccggagctgttc 360  
 QY 361 ctgtgcaggtgtcgtgaagcgcagctgctgacagctcaccagcttcaggagaatggt 420  
 DB 361 ctgtgcaggtgtcgtgaagcgcagctgctgacagctcaccagcttcaggagaatggt 420  
 QY 421 gcttggatgcccccatcacagacttctactccagcagtgagactag 468  
 DB 421 gcttggatgcccccatcacagacttctactccagcagtgagactag 468

RESULT 9  
 A09198  
 ID A09198 standard; cDNA; 1275 BP.  
 XX  
 XX A09198;  
 XX  
 XX 10-AUG-2000 (first entry)  
 XX  
 XX  
 DE Murine IL-1 homologue, zllia3 coding sequence.

XX Generic; interleukin-1; IL-1; homologue; zllia3; anti-inflammatory;  
 KW antagonist; pro-inflammatory; agonist; immunomodulator; antiarthritic;  
 KW antirheumatic; osteoprotic; antidiabetic; antibacterial; cytostatic;  
 KW immunosuppressive; antitumor; antidiabetic; nephrotropic; vasotropic;  
 KW vulnerable; Zg14; ss.  
 XX  
 XX Mus musculus.

XX Key Location/Qualifiers  
 FH 101..571  
 FT CDS /\*tag= a

FT WO200020595-A1.  
 PN 13-APR-2000.

XX 08-OCT-1999; 99WO-US23533.  
 PF 08-OCT-1998; 98US-0169745.  
 PR (ZYMO ) ZYMOGENETICS INC.

XX Sheppard PO, West RR, Clegg CH;  
 PI WPI: 2000-303780/26.  
 DR P-PSDB; Y92260.  
 XX

PT Proteins useful for treatment of inflammatory conditions such as  
 PT rheumatoid arthritis and psoriasis are agonists or antagonists forms of  
 PT new interleukin-1 homologue

PS Example 7: Page 59-60; 64pp; English.

CC This DNA encodes an interleukin-1 (IL-1) homologue, designated zllia3.  
 CC A 350 bp probe generated from this sequence by PCR using A09199-200 was  
 CC used to analyze human northern blots.  
 CC It is believed that zllia3 acts through IL-1 receptors. In general,  
 CC zllia3 proteins having a Lys residue at position 148 will have  
 CC anti-inflammatory activity (e.g. Y92256) whilst those having Asp  
 CC (see Y92254) or Glu at this position will have pro-inflammatory action.  
 CC zllia3 is used to modulate an immune response in an animal (claimed).  
 CC Antagonists zllia3 forms may be used to treat or prevent chronic  
 CC inflammatory diseases such as rheumatoid arthritis, osteoarthritis and  
 CC Lyme arthritis, psoriasis, to reduce tissue damage after ischemia, to  
 CC treat septic shock, graft-versus-host disease and leukemia.  
 CC The antagonists may also alleviate inflammatory bowel disease including  
 CC Crohn's disease and ulcerative colitis, insulin-dependent diabetes  
 CC mellitus, acute pancreatitis, glomerulonephritis and cerebral ischemia.

CC Against forms of zilla3 may promote wound healing by IL-1 effects on  
 CC growth factor secretion and cell proliferation. They may also treat  
 CC infections, especially gastrointestinal infections.

XX Sequence 1275 BP; 325 A; 315 C; 305 G; 330 T; 0 other;

Query Match 75.0%; Score 351.2; DB 21; Length 1275;  
 Best Local Similarity 84.4%; Pred. No. 5.9e-93;  
 Matches 395; Conservative 0; Mismatches 73; Indels 0; Gaps 0;

QY 1 atgttcctgaagtgaggcgtgtgtcttcggaatgaagagctcgacatgaagtgcttat 60  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 104 atgttcctgaagtgaggcgtgtgtcttcggaatgaagagctcgacatgaagtgcttat 163  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 QY 61 ctgcataataaccagctctcgtgagaggtgctgacagaggaagtgcttaaaagtgtaa 120  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 164 ctgcataataaccagctctcgtgagaggtgctgacagaggaagtgcttaaaagtgtaa 223  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 QY 121 gagatcaagctgtgtcccaatcgtgtggtgatgacagccgtccctccgtcatcctgtg 180  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 224 gagatcaagctgtgtcccaatcgtgtggtgatgacagccgtccctccgtcatcctgtg 283  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 QY 181 gtccagagtggaagcagctgtcgtcgtcgtcgtggtggtggtggtggtggtggtggtg 240  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 284 gtccagagtggaagcagctgtcgtcgtcgtcgtggtggtggtggtggtggtggtggtg 343  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 QY 241 gagcagtggaacatcatgagctctatctgtgtggtggtggtggtggtggtggtggtg 300  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 344 gagcagtggaacatcatgagctctatctgtgtggtggtggtggtggtggtggtggtg 403  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 QY 301 taccgagcgagcatgaggctcaccctccagctcgtcgtcgtcgtcgtcgtcgtcgtcgtc 360  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 404 taccgagcgagcatgaggctcaccctccagctcgtcgtcgtcgtcgtcgtcgtcgtcgtc 463  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 QY 361 ctgtgacagtggtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtc 420  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 464 ctgtgacagtggtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtc 523  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 QY 421 ggtctggaatgcccccatcacagactcttactccagcagtggtgactag 468  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 524 ggtctggaatgcccccatcacagactcttactccagcagtggtgactag 571  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

RESULT 10  
 ID 250811 standard; cDNA; 1360 BP.

XX AC Z50811;

DT 31-MAY-2000 (first entry)

DE Murine TANGO-93 cDNA.

XX TANGO-93; cytokine; mouse; secreted protein; IL-1 expression; cancer;  
 KW Interleukin-1 receptor antagonist; IL-1ra; inflammation; antiasthmatic;  
 KW immunosuppressive; antirheumatic; antipruritic; antipsoriatic; asthma;  
 KW antinflammatory; antibacterial; antitumor; cytoprotic; immunomodulator;  
 KW osteopathic; dermatological; antidiabetic; psoriasis; ulcerative colitis;  
 KW graft vs.-host disease; Rheumatoid arthritis; inflammatory bowel disease;  
 KW septic shock; cachexia; Crohn's disease; chronic myelogenous leukemia;  
 KW liver disease; diabetes; osteoarthritis; Hodgkin's disease; Lyme disease;  
 KW autoimmune disease; myasthenia gravis; pharmacogenomic; diagnosis;  
 KW systemic lupus erythematosus; forensic; transgenic animal; ss.

OS Mus sp.

XX Location/Qualifiers

XX Key

XX CDS

FT 137..607

FT /tag= a

FT /product= "Murine TANGO-93 protein"

FT /note= "Has 52% and 50% homology to murine and human

FT Interleukin-1 receptor antagonist (IL-1ra)"

XX M0200008045-A2.

XX 17-FEB-2000.

XX 06-AUG-1999; 99MO-US17886.

XX 07-AUG-1998; 98US-0131263.

XX (MILL-) MILLENNIUM BIOTHERAPEUTICS INC.

XX Pan Y;

XX WPI: 2000-205669/18.

XX P-PSDB: Y45061.

XX Isolated nucleic acid sequences encoding TANGO-93 polypeptide useful  
 PT for treating a variety of cellular processes e.g. asthma, rheumatoid  
 PT arthritis, psoriasis and autoimmune diseases

PS Claim 2a; Fig 1; 113pp; English.

CC The present sequence is the cDNA encoding the murine TANGO-93, a secreted  
 CC protein that belongs to the cytokine superfamily. It plays a role  
 CC similar to secreted interleukin-1 receptor antagonist (IL-1ra) and its  
 CC expression is developmentally regulated in liver, heart and bone marrow.  
 CC TANGO-93 modulates immune mediated inflammation and IL-1 gene or protein  
 CC expression. TANGO-93 is useful as a modulating agent for regulating  
 CC cellular processes like asthma, graft vs.-host disease, rheumatoid  
 CC arthritis, psoriasis, inflammatory bowel disease, septic shock,  
 CC ulcerative colitis, Crohn's disease, chronic myelogenous leukemia,  
 CC cancer, liver disease, Hodgkin's disease, osteoarthritis, Lyme disease,  
 CC cachexia, and autoimmune diseases e.g. myasthenia gravis, autoimmune  
 CC diabetes and systemic lupus erythematosus. Partial TANGO-93 sequences  
 CC are useful in forensic biology, for diagnostic and prognostic assays,  
 CC prophylactic and therapeutic treatment and pharmacogenomics. The DNA  
 CC sequences are useful as hybridisation probes and primers, for isolation  
 CC of TANGO-93 sequence and for the creation of transgenic animals.

XX Sequence 1360 BP; 374 A; 328 C; 322 G; 336 T; 0 other;

Query Match 75.0%; Score 351.2; DB 21; Length 1360;  
 Best Local Similarity 84.4%; Pred. No. 6e-93;  
 Matches 395; Conservative 0; Mismatches 73; Indels 0; Gaps 0;

QY 1 atgttcctgaagtgaggcgtgtgtcttcggaatgaagagctcgacatgaagtgcttat 60  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 140 atgttcctgaagtgaggcgtgtgtcttcggaatgaagagctcgacatgaagtgcttat 199  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 QY 61 ctgcataataaccagctctcgtgagaggtgctgacagaggaagtgcttaaaagtgtaa 120  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 200 ctgcataataaccagctctcgtgagaggtgctgacagaggaagtgcttaaaagtgtaa 259  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 QY 121 gagatcaagctgtgtcccaatcgtgtggtgatgacagccgtccctccgtcatcctgtg 180  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 260 gagatcaagctgtgtcccaatcgtgtggtgatgacagccgtccctccgtcatcctgtg 319  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 QY 181 gtccagagtggaagcagctgtcgtcgtcgtcgtggtggtggtggtggtggtggtggtg 240  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 320 gtccagagtggaagcagctgtcgtcgtcgtcgtggtggtggtggtggtggtggtggtg 379  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 QY 241 gagcagtggaacatcatgagctctatctgtgtggtggtggtggtggtggtggtggtg 300  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 380 gagcagtggaacatcatgagctctatctgtgtggtggtggtggtggtggtggtggtg 439  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 QY 301 taccgagcgagcatgaggctcaccctccagctcgtcgtcgtcgtcgtcgtcgtcgtcgtc 360  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 440 taccgagcgagcatgaggctcaccctccagctcgtcgtcgtcgtcgtcgtcgtcgtcgtc 499  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 QY 361 ctgtgacagtggtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtc 420  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
 Db 500 ctgtgacagtggtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtc 559  
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||





QY 241 gagcagtgacaatcattgagctctatctgtgtccaaagaaatccaaagcttcacctc 300  
 |||||  
 Db 244 gagcagtgacaatcattgagctctactctcgggccaagaaatccaaagcttcacctc 303  
 |||||  
 QY 301 taccggcgggaatgggttcacctcagcttgatgcgttcctaccggcgctgttc 360  
 |||||  
 Db 304 taccggcgggaatgggttcacctcagcttgatgcgttcctaccggcgctgttc 363  
 |||||  
 QY 361 ctgtgacagtgctcctaaagccacatcagctgtcagactcaccagcttcggagaatgt 420  
 |||||  
 Db 364 ctgtgacactcaacggaaagctgacacagcctgtcagctcactcagatcccttgagaccc 423  
 |||||  
 QY 421 ggcctggaatgcacccatcacagactctcacttcacagagtgatgac 465  
 |||||  
 Db 424 ggcctggaatgcacccatcacagactctcacttcacagagtgatgac 468  
 |||||  
 RESULT 14  
 ID A09194 standard; DNA; 465 BP.  
 AC A09194;  
 XX  
 DT 10-AUG-2000 (first entry)  
 XX  
 DE Human IL-1 homologue, hz11a3 degenerate coding sequence.  
 XX  
 KW Generic; Interleukin-1; IL-1; homologue; z11a3; anti-inflammatory;  
 KM antagonist; pro-inflammatory; agonist; immunomodulator; antiarthritic;  
 KM antirheumatic; osteopathic; antipsoriatic; antibacterial; cycostatic;  
 KW immunosuppressive; antitumor; antidiabetic; nephrotropic; vasotropic;  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200020595-A1.  
 XX  
 PD 13-APR-2000.  
 XX  
 PF 08-OCT-1999; 99WO-US23533.  
 XX  
 PR 08-OCT-1998; 98US-0169745.  
 XX  
 PA (ZYMO ) ZYMOGENETICS INC.  
 XX  
 PI Sheppard PO, West RR, Clegg CH;  
 XX  
 DR MPI: 2000-303780/26.  
 XX  
 P-PSDB: Y92257.  
 XX  
 PT Proteins useful for treatment of inflammatory conditions such as  
 XX rheumatoid arthritis and psoriasis are agonists or antagonists forms of  
 XX new interleukin-1 homologue  
 XX  
 PS Disclosure: Page 57; 64pp; English.  
 XX  
 XX This DNA encodes an interleukin-1 (IL-1) homologue, designated z11a3.  
 CC It is believed that z11a3 acts through IL-1 receptors. In general,  
 CC z11a3 proteins having a lys residue at position 148 will have  
 CC anti-inflammatory activity (e.g. Y92256), whilst those having Asp  
 CC (see Y92254) or Glu at this position will have pro-inflammatory action.  
 CC z11a3 is used to modulate an immune response in an animal (claimed).  
 CC Antagonists z11a3 forms may be used to treat or prevent chronic  
 CC inflammatory diseases such as rheumatoid arthritis, osteoarthritis and  
 CC Lyme arthritis, psoriasis, to reduce tissue damage after ischemia, to  
 CC treat septic shock, graft-versus-host disease and leukemia.  
 CC The antagonists may also alleviate inflammatory bowel disease including  
 CC Crohn's disease and ulcerative colitis, insulin-dependent diabetes  
 CC mellitus, acute pancreatitis, glomerulonephritis and cerebral ischemia.  
 CC Agonist forms of z11a3 may promote wound healing by IL-1 effects on  
 CC growth factor secretion and cell proliferation. They may also treat  
 CC infections, especially gastrointestinal infections.  
 CC  
 XX

SQ Sequence 465 BP; 70 A; 45 C; 86 G; 67 T; 197 other;  
 Query Match 70.7%; Score 330.8; DB 21; Length 465;  
 Best Local Similarity 57.6%; Pred. No. 3.6e-87;  
 Matches 268; Conservative 108; Mismatches 89; Indels 0; Gaps 0;  
 QY 1 atgtcctgagtgaggcgctgtgtcctccaaatbaaagactcggcattgaagtgttat 60  
 |||||  
 Db 1 atgtgttynmsngngnncnntnngtlytmgnaatgaatgawnsngcnynlaargtynntay 60  
 |||||  
 QY 61 ctgcataataacacagctctagctgagagctgacgtacgtacggaaggtcattaaagtgaa 120  
 |||||  
 Db 61 ytncaayaayaaycarytnytngcngngngnynlncaaycngnnaargtnaargaaggar 120  
 |||||  
 QY 121 gagataagcgtgtgtcccaatcgctgtcgtgagatgcacagctgtccccgcataccggt 180  
 |||||  
 Db 121 garatnmsngtngtncnnaaymngntggtngaygcnwnstnmscngtnahtnngn 180  
 |||||  
 QY 181 gtccaggtgtgaagccagctgctcaltgtgggttgaggcagagagcagctcactaacta 240  
 |||||  
 Db 181 gtncargngngmwnscartggtynwnstngtngngtngncargcnaacnynlnacnyn 240  
 |||||  
 QY 241 gagcagtgacaatcattgagctctatctgtgtccaaagaaatccaaagcttcacctc 300  
 |||||  
 Db 241 garcngtnaayaathatgagrytnlaytngngncaargawnaarwnstlyacntly 300  
 |||||  
 QY 301 taccggcgggaatgggttcacctcagcttgatgcgttcgacggcgctgtgttc 360  
 |||||  
 Db 301 laymgmgngayaltgggynlnacnwnstlygawstngcngcngtlaycngngntggtly 360  
 |||||  
 QY 361 ctgtgacagtgctcctaaagccagctcagctgtcagactcaccagcttcggagaatgt 420  
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 Db 361 ytnltgacngtngcngargcngaycncngnngnmgynlnacnarytnncngnaaaygn 420  
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 QY 421 ggcctggaatgcacccatcacagactctcacttcacagagtgatgac 465  
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 Db 421 ggnltggaaygcncnathacngaytlytlycaccartgygag 465  
 |||||  
 RESULT 15  
 ID A09195 standard; DNA; 465 BP.  
 AC A09195;  
 XX  
 DT 10-AUG-2000 (first entry)  
 XX  
 DE Human IL-1 homologue, hz11a3-K148, degenerate coding sequence.  
 XX  
 KW Generic; Interleukin-1; IL-1; homologue; z11a3; anti-inflammatory;  
 KM antagonist; pro-inflammatory; agonist; immunomodulator; antiarthritic;  
 KM antirheumatic; osteopathic; antipsoriatic; antibacterial; cycostatic;  
 KW immunosuppressive; antitumor; antidiabetic; nephrotropic; vasotropic;  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200020595-A1.  
 XX  
 PD 13-APR-2000.  
 XX  
 PF 08-OCT-1999; 99WO-US23533.  
 XX  
 PR 08-OCT-1998; 98US-0169745.  
 XX  
 PA (ZYMO ) ZYMOGENETICS INC.  
 XX  
 PI Sheppard PO, West RR, Clegg CH;  
 XX  
 DR MPI: 2000-303780/26.  
 XX  
 P-PSDB: Y92256.  
 XX



GenCore version 4.5  
Copyright (c) 1993 - 2000 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: May 31, 2001, 06:35:20 ; Search time 1132.2 Seconds  
(without alignments)  
3611.106 Million cell updates/sec

Title: us-09-612-921-3

Perfect score:

468 1 atggctcgtgagtgaggcgct.....acttcagcagtgtagctag 468

Scoring table:

IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 9623517 seqs, 4368049070 residues

Total number of hits satisfying chosen parameters: 19247034

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-Processing: Minimum Match 08

Maximum Match 100%

Listing first 45 summaries

Database :

EST:\*

1: gb\_est1:\*  
2: gb\_est2:\*  
3: gb\_est3:\*  
4: gb\_est4:\*  
5: gb\_est5:\*  
6: gb\_est6:\*  
7: gb\_est7:\*  
8: gb\_est8:\*  
9: gb\_est9:\*  
10: gb\_est10:\*  
11: gb\_est11:\*  
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13: gb\_est13:\*  
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23: gb\_est23:\*  
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25: gb\_est33:\*  
26: gb\_est34:\*  
27: gb\_est35:\*  
28: gb\_est36:\*  
29: gb\_est37:\*  
30: gb\_est38:\*  
31: gb\_est39:\*  
32: gb\_est40:\*  
33: em\_estba:\*  
34: em\_estfun:\*  
35: em\_esthum1:\*  
36: em\_esthum2:\*  
37: em\_esthum3:\*  
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79: em\_estp18:\*  
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81: em\_estp110:\*  
82: em\_estro1:\*  
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97: em\_estro16:\*  
98: em\_estro17:\*  
99: em\_estro18:\*  
100: em\_estro19:\*  
101: em\_estro20:\*  
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103: gb\_est26:\*  
104: gb\_est27:\*  
105: gb\_est28:\*  
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109: gb\_est32:\*  
110: gb\_est41:\*  
111: gb\_est42:\*  
112: gb\_est43:\*  
113: gb\_est44:\*  
114: gb\_est45:\*  
115: gb\_est46:\*  
116: gb\_est47:\*

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117: gb_est48:*
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188: gb_est119:*
189: gb_est120:*

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Result No.	Score	Query Match	Length	ID	Description
1	208.6	44.6	382	W08205	W08205 mb49d11.r1
2	108.6	23.2	938	BE563703	BE563703 601335323
3	97.6	20.9	531	AM951593	AM951593 EST136363
4	95.8	20.5	397	BE846054	BE846054 232365 BA
5	95.6	20.4	635	AM262191	AM262191 xg62f01.x
6	94.6	20.2	435	W76043	W76043 zdt72d01.r1
7	94	20.1	549	BE706905	BE706905 QV0-HT036
8	93.6	20.0	508	AM464284	AM464284 BP230015A
9	90.6	19.4	1020	BC245180	BC245180 602357579
10	89	19.0	281	R50241	R50241 yf58a03.r1
11	87.6	18.7	260	RA6871	RA6871 yf54f05.r1
12	84	17.9	356	BE477245	BE477245 160853 BA
13	66.8	14.3	976	BE563442	BE563442 601335496
14	62.8	13.4	468	BF350044	BF350044 CM1-HT024
15	61.6	13.2	554	AI391145	AI391145 mc16c06.y
16	61	13.0	602	AM083357	AM083357 xc08g03.x
17	55.2	11.8	551	BG058746	BG058746 na1f0a11.
18	53	11.3	689	AA768860	AA768860 na275f12.s

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES



19 52.8 11.3 870 145 BF244205 601863146  
20 51.4 11.0 539 148 BF433375  
21 50.2 10.7 354 158 W20594 mc16c06.r1  
22 49.2 10.5 436 114 AM361164  
23 49.2 10.5 536 120 AM853610  
24 49.2 10.5 539 114 AM368430  
25 49.2 10.5 555 114 AM361172  
26 49.2 10.5 555 138 BE695960  
27 49.2 10.5 557 114 AM368437  
28 49.2 10.5 559 117 AM578451  
29 48.6 10.4 547 10 AA704518  
30 48.4 10.3 533 174 BG231663  
31 42 9.0 560 114 AM361245  
32 41.6 8.9 802 149 BF534817  
33 41.2 8.8 401 155 R34906  
34 41.2 8.8 442 159 W95637  
35 40.8 8.7 349 6 AA381142  
36 40.2 8.6 434 119 AM753217  
37 40 8.5 410 168 BF731619  
38 40 8.5 498 114 AM379511  
39 39 8.3 779 112 AM211461  
40 38.4 8.2 509 172 BG058520  
41 38 8.1 862 107 AU140167  
42 37.8 8.1 539 165 BE290069  
43 37.6 8.0 288 14 AF054165  
44 36.8 7.9 191 114 AM367148  
45 36 7.7 862 136 BE567173

## ALIGNMENTS

RESULT 1  
W08205 382 bp mRNA EST 05-SEP-1996  
LOCUS W08205  
DEFINITION mb49b11.r1 Soares mouse p3NMF19.5 Mus musculus CDNA clone  
IMAGE:332733 5 similar to PIR:A49031 A49031 Interleukin 1 receptor  
antagonist - mouse ; mRNA sequence.  
W08205  
W08205.1 GI:1282415

ACCESSION  
VERSION  
KEYWORDS  
SOURCE  
ORGANISM

house mouse.  
Mus musculus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
1 (bases 1 to 382)

REFERENCE  
AUTHORS  
TITLE  
JOURNAL  
COMMENT

Maria M., Hillier L., Allen M., Bowles M., Dietrich N., Dubuque T.,  
Geisel S., Kucaba T., Lacy M., Le M., Martin J., Morris M.,  
Schellenberg K., Steptoe M., Tan F., Underwood K., Moore B.,  
Theising B., Wylie T., Lennon G., Soares B., Wilson R. and  
Waterston R.  
The WashU-HMI Mouse EST Project  
Unpublished (1996)  
Contact: Maria M/Mouse EST Project  
WashU-HMI Mouse EST Project  
Washington University School of Medicine  
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108  
Tel: 314 286 1800  
Fax: 314 286 1810  
Email: mouseest@wustl.edu  
This clone is available royalty-free through LNL; contact the  
IMAGE Consortium (info@image.llnl.gov) for further information.  
MGI:214133  
Seq primer: EPTprimer  
High quality sequence stop: 354.

FEATURES  
source

1..382  
Location/Qualifiers  
/organism="Mus musculus"  
/db\_xref="taxon:10090"  
/clone="IMAGE:332733"  
/clone.lib="Soares mouse p3NMF19.5"  
/dev\_stage="19.5 dpc total fetus"  
/lab\_host="DH10B (ampicillin resistant)"

## BASE COUNT

/note="Vector: pT73D (Pharmacia) with a modified  
polylinker; Site\_1: Not I; Site\_2: Eco RI; 1st strand cDNA  
was primed with a Not I - oligo(dT) primer [5',  
TGTTCACATCTGAAGTGGAGCGCCGATTTTCTTTTCTTTT 3'],  
double-stranded cDNA was size selected, ligated to Eco RI  
adapters (Pharmacia), digested with Not I and cloned into  
the Not I and Eco RI sites of a modified pT73 vector  
(Pharmacia). Library went through one round of  
normalization to a Cot = 5. Library constructed by Benito  
Soares and M. Fatima Bonaldo. RNA was kindly provided by  
Dr. Minoru Ko (Wayne State University)."

Query Match 44.6%; Score 208.6; DB 157; Length 382;  
Best Local Similarity 84.2%; Pred.No.2.1e-47;  
Matches 235; Conservative 0; Mismatches 44; Indels 0; Gaps 0;

QY 1 atgctcctgagtgaggcgcgtgtgtccgaatgaagactcgcattgaagtgcttat 60  
||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||  
Db 104 ATGCTCTGAGTGGGCGACATCTTCCGATGAAGATTCAACCTTGAAGTACTGTAT 163  
QY 61 ctgcataataaccagcttctagctggaaggctgcatgcagggaaggtcattaaagttaa 120  
||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||  
Db 164 CTGCACAATTAACCACTGCTGCTGAGGACCTGCACGACAGAAAGGTCAATTAAGGTGAG 223  
QY 121 gaagataagctggtcccaatggtgtggtggtggtggtggtggtggtggtggt 180  
||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||  
Db 224 GAGATCAAGTGTCTCCCAATTCGGGCACCTGATGCCAGTCTGCCCTGTCACTGGGC 283  
QY 181 gtccaggttggaagccagctgcctcatctggtggtggtggtggtggtggtggtggt 240  
||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||  
Db 284 GTTCAAGGAGAGAGCCAGTCTCTTCTGTGGACAGAGAAAGGCCATTTGGAACATT 343  
QY 241 gaggcagtgaaacatcagtgagctctatctgtgtgccaag 279  
||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||  
Db 344 GAGCCAGTGAACATCATGTGAGCTCTACTCTGCGGCGCAAG 382

## RESULT 2

BE563703 938 bp mRNA EST 15-AUG-2000  
LOCUS BE563703  
DEFINITION 601335333F1 NIH\_MGC\_39 Homo sapiens CDNA clone IMAGE:3689284 5',  
mRNA sequence.  
BE563703

ACCESSION  
VERSION  
KEYWORDS  
SOURCE  
ORGANISM

Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
1 (bases 1 to 938)  
NIH-MGC http://mgi.nci.nih.gov/.  
National Institutes of Health, Mammalian Gene Collection (MGC)  
Unpublished (1999)  
Contact: Robert Strausberg, Ph.D.  
Tel: (301) 496-1550  
Email: Robert.Strausberg@nih.gov  
Tissue Procurement: ATCC  
CDNA Library Preparation: Ling Hong/Rubin Laboratory  
DNA Sequencing by: Incyte Genomics, Inc.  
Clone distribution: MGC clone distribution information can be  
found through the I.M.A.G.E. Consortium/LLNL at:  
http://image.llnl.gov  
Plate: L1CM383 row: n column: 05  
High quality sequence stop: 764.

FEATURES  
source

1..938  
Location/Qualifiers  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone="IMAGE:3689284"







Fax: 217 244 5617

Email: h-lewin@uic.edu

Funding for cattle EST sequencing was provided by the USDA National Research Initiative, Animal Genome Resource Grant AG 99-3205-8534 to H. A. Lewin and J. E. Womack. Base Calling/Quality Scores: PHRED from Washington University Genome Center. Vector Trimmi g: Sequences match from Washington University Genome Center PHRAP suite. Sequences submitted are vector free and at least 200 bp in length.

PCR primers

FORWARD: TAATGACATCTACTATAGG

BACKWARD: ATTACCCCTCATAAG

Insert Length: 508 Std Error: 0.00

Plate: BP230015A20 row: F column: 10

Seq primer: AGCGGATACAAATTCACACAGGA

High quality sequence stop: 508.

Location/Qualifiers

1. 508

/organism="Bos taurus"

/db\_xref="taxon:9913"

/clone="BP230015A20F10"

/clone\_lib="Soares normalized bovine placenta"

/sex="Female"

/lab\_host="DH10B"

/note="Organ: placenta; Vector: pT73Pac; Site:1: ECORI; Site:2: NotI; The cDNA library was contributed by the

Soares Laboratory and it was constructed and normalized

as described by Bonaldo, M.F., Lennon, G. and Soares,

M.B. (1996), Genome Research 6(9): 791-806. "

BASE COUNT 126 a 148 c 127 g 107 t

ORIGIN

Query Match 20.0%; Score 93.6; DB 115; Length 508;

Best Local Similarity 56.2%; Pred. No. 1.7e-15;

Matches 227; Conservative 0; Mismatches 159; Indels 18; Gaps 2;

11 gtggggcgtgtgtcttcgaatgaagactggcattgaagtgcttatctgcatata 70

4 GCGAGATCCAGCCCTTCAGATCTGGATGTCACCAAGATCTTCTACCTGAGCAATA 63

71 accagcttcagctggaagctgcagaggaagtcatttaaaagttaagatcagag 130

64 ACCAATTGTTGCTGGATCTTGAAGGACCAATTAATTAAGGAGGAGATGATG 123

131 tgggtcccaatcggtgtgtgagtcgaagctgtcccccgtacccctggtgtgcaaggtg 190

124 TGGTACCA-----TCGAACCCCATATATATGTTCTGGGGATCCATGGGG 168

191 gaagcagctgtctgtcatgtg---gggtggggcaggaagcgaacttaacactagagcag 247

169 GGAAGCTGTGCTGGCTGCGCTGAATAATCTGAGATGATCAAGCTCAAGTTAGAGGCGG 228

248 tgaacatcatgagagctctatctgtgtcgaagaatccaagaagcttcaccttcacggc 307

229 TGACATCTACTGACTTGAACCAAGAACAGGACAGACAGAGGCTTTGCTTCATCCGCT 288

308 gggagatggggtccacccctcagctcgaagtcggtcctacccgggctgtgtctgtgca 367

289 TCGACAAAGGGGCGCCACCAAGCTTTGAGTCAAGTGTGCGCCGGCGGTTCCTCTGCA 348

368 cgggtcctggaagcgaatcagctgtcagactcaaccagcttccc 411

349 CATCACTGGAGGCGGACCAAGCCGCTGCGCTCACCACCAATATATGCC 392

Db

RESULT 9

LOCUS BG245180 1020 bp mRNA

DEFINITION 602357579F1 NCI\_CGAP\_Mam1 Mus musculus cDNA clone IMAGE:4486098 5',

ACCESSION BG245180

VERSION BG245180.1

KEYWORDS EST, GI:12754995

SOURCE

house mouse;

Mus musculus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

REFERENCE 1 (bases 1 to 1020)

NIH-MGC <http://mgc.nci.nih.gov/>.

National Institutes of Health, Mammalian Gene Collection (MGC)

UNPUBLISHED (1999)

CONTACT: Robert Strausberg, Ph.D.

Tel: (301) 496-1550

Email: Robert.Strausberg@nih.gov

Tissue Procurement: Gilbert Smith, Ph.D.

cDNA Library Preparation: Life Technologies, Inc.

cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)

DNA Sequencing by: Incyte Genomics, Inc.

Clone distribution: MGC clone distribution information can be

found through the I.M.A.G.E. Consortium/LNL at:

<http://image.llnl.gov>

Plate: L1AM10328 row: n column: 19

High quality sequence start: 4

High quality sequence stop: 653.

Location/Qualifiers

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/strain="FVB/N"

/db\_xref="taxon:10090"

/clone="IMAGE:4486098"

/clone\_lib="NCI CGAP\_Mam1"

/tissue\_type="tumor, biopsy sample"

/dev\_stage="3 months, virgin"

/lab\_host="DH10B"

/note="Organ: mammary; Vector: pCMV-SPORT6; Site:1: SalI; Site:2: NotI; Cloned unidirectionally. Primer: Oligo dT.

Library constructed by Life Technologies. Investigator

providing samples: Gilbert Smith, NIH"

BASE COUNT 282 a 269 c 268 g 201 t

ORIGIN

Query Match 19.4%; Score 90.6; DB 174; Length 1020;

Best Local Similarity 56.2%; Pred. No. 1.3e-14;

Matches 221; Conservative 0; Mismatches 154; Indels 18; Gaps 2;

24 ctccgaatgaagactggcattgaagtgcttatctgcatataaaccagcttcagc 83

157 CTTGAGAACTGTGAGTACTAACCAGAGACCTTTTACCTGAGCAACACACACTGATTC 216

84 tggagggctgtcatgcaggaaggtcattaaaggtgaagatcagcgtgtgtcccaatcg 143

217 TGGGTACTTACAGAGCAACAAATATCAAACTAGAAAGAAAGTTAGACATGTGCTATTGA 276

144 gtgtgtgtgtgtccagctgtcccccgtacccctggtgtgtcaggtgtgaagcagctgtc 203

277 -----CCTTCATAGTGTGTTCTTGGGATCCACGGGGCAAGCTTGCTT 321

204 gtcatgtg---gggtggggcaggaagcgcacttaacacttagagcgaatcatcatgga 260

322 GTCTTGTCGAAGTCTGGAGATGATATCAAGCTCCAGCTGAGGAGGAAATTACATCATGCA 381

261 gctctatcttggtgcgaagaatccaagaagctcaaccttcacggcgaggaatgagct 320

382 TCTTGAGCAAGAACAAAGAAAGAGAACAGCGCTTTCATCCCTCTGTGAGAAAGGCC 441

321 caccctcagcttgagctgtgtcctaccgggctgtgtcctgtgtcaggtgtgagcgtgaagc 380

442 CACCAACAGCTTTGAGTACGCTGCTGTCAGAGATGTTCTCTGCAACACTAGAGGC 501

381 cgatcagctgtcagactcaccagcttcaggca 413

502 TGACCGTCTGTGAGCTTCACACACACGCGGA 534

Db

RESULT 10

[illegible]

Db	202	CTCACCAATATGCGCTGACGAAGCGCTTATGATGGGTCACCAAAATTCCTACTGTCCA	254
RESULT	11		
R46871			
LOCUS			
DEFINITION			
ACCESSION			
VERSION			
KEYWORDS			
SOURCE			
ORGANISM			
REFERENCE			
AUTHORS			
TITLE			
JOURNAL			
COMMENT			

R46871 260 bp mRNA EST 10-MAY-1995  
 y154f05.r1 Soares breast 2NbHst Homo sapiens cDNA clone  
 IMAGE152577.5, similar to gb:X64532.mal INTELEUKIN-1 RECEPTOR  
 ANTAGONIST PROTEIN PRECURSOR (HUMAN);, mRNA sequence.  
 R46871  
 R46871.1 GI:806268  
 EST.  
 human.  
 Homo sapiens  
 Eumetazoa; Metazoa; Chordata; Craniata; Vertebrate; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.  
 1 (bases 1 to 260)  
 Hillier L., Clark N., Dubuque T., Elliston K., Hawkins M., Holman  
 M., Hulman M., Kucaba T., Le M., Lennon G., Marra M., Parsons J.,  
 Rikhi L., Roifling T., Soares M., Tan F., Treviski E., Waterston  
 R., Williamson A., Wohldmann P. and Wilson R.  
 The WashU-Merck EST Project  
 Unpublished (1995)  
 Contact: Wilson RK  
 Washington University School of Medicine  
 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108  
 Tel: 314 286 1800  
 Fax: 314 286 1810  
 Email: est@watson.wustl.edu  
 Insert Size: 739  
 High quality sequence stops: 230 Source: IMAGE Consortium, LLNL  
 This clone is available royalty-free through LLNL; contact the  
 IMAGE Consortium (info@image.llnl.gov) for further information.  
 Insert Length: 739 Std Error: 0.00  
 Seq primer: M13Rp1  
 High quality sequence stop: 230.  
 Location/Qualifiers  
 1. 260

						/organism="Homo sapiens"
						/db_xref="GDB:564801"
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						/clone="IMAGE:152577"
						/clone_lib="Soares breast 2NBHBST"
						/sex="female"
						/dev_stage="adult"
						/lab_host="DH10B (ampicillin resistant)"
						/note="Organ: breast; Vector: pT73D (Pharmacia) with a modified polylinker; Site.1: Not I ; Site.2: Eco RI; 1st strand cDNA was primed with a Not I - oligo(dT) primer [5' TGTTACCAATCTGAAGTGCGAGCGGCCCCCTTTTTTTTTTTTTTTT 3'] , double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia) , digested with Not I and cloned into the Not I and Eco RI sites of a modified pT73 vector (Pharmacia).
						Library went through one round of normalization to a Cot = 230. Library constructed by Bento Soares and M.Fatima Bonaldo."
BASE COUNT	58 a	78 C	68 g	53 t	3 others	
ORIGIN						
Query Match						18.7%; Score 87.6; DB 155; Length 260;
Best Local Similarity						63.8%; Pred. No. 6.7e-14;
Matches 132; Conservative						0; Mismatches 75; Indels 0; Gaps 0.
Oy	217	gggcagcggcgacactcaacctaaaggacgacgaagaatactgatgttcttgtagcc	276			
Dd	22	GGTGATGGACCAGACTCCAGCTGAGGAGAGTTAACAATCATTGACCTGACGAGAACAACA	81			
Oy	277	aaggaattccaagtctaccctctaccgcggcggagcatcgggctcacctccacgttcgag	336			
Dd	82	AAGCAGACAACGCCTTTGCGCTTCATCCCCTTAAGACAGAGGCGCCCAACACAGTTTGGAG	141			







Thu May 31 10:21:47 2001

Search completed: May 31, 2001, 07:56:52  
Job time: 4892 sec

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